

# AC Inverter

## 1250 WATT

*DC to AC Power Inverter*



***User's Manual***

# Slim Line 1250 Watt Power Inverter by Wagan Tech

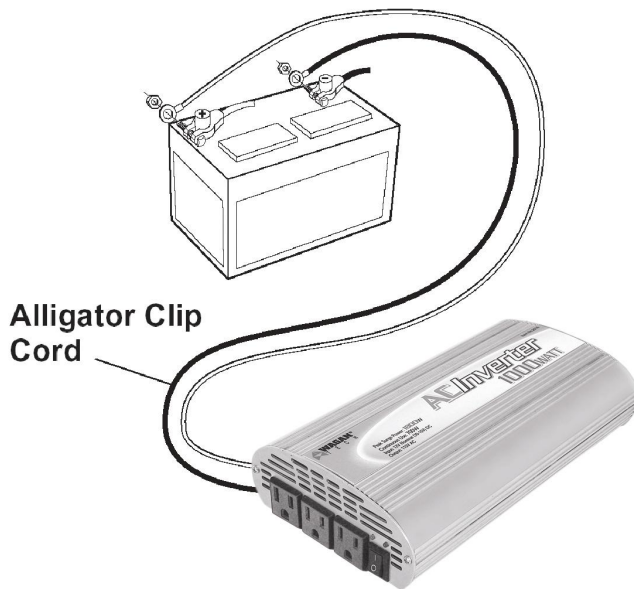
USER'S MANUAL — Please read before using this equipment.

Your 1250 Watt Power Inverter converts 12-volt vehicle battery power into 115 volts of AC power. You can use the inverter in your vehicle to operate many types of appliances that use AC power such as TVs, VCRs, portable computers, power tools, and lights for emergency or camping use.

The inverter works with your vehicle's engine turned on or off (accessory mode). It provides a continuous output of up to 1250 watts.

## BASIC OPERATION

- Use the right operating voltage for both input and output of the inverter.
- Powering devices by connecting  $\oplus$  from inverter to  $\oplus$  of battery terminal and connect  $\ominus$  from inverter to  $\ominus$  of battery terminal.



- Turn ON the power switch that is located at the front of the inverter, and the green LED light will light as indicator that the unit is at work.
- Insert the plug of your appliances into AC socket at the front of the inverter.

## CAUTION

- DO NOT USE THE INVERTER IN A POSITIVELY GROUNDED VEHICLE.

## RECOMMENDATION

- If the power inverter makes a beeping sound, turn OFF the power inverter and disconnect all appliances from inverter and disconnect the inverter from power supply. The beeping sound is simply the low battery warning, which indicates that the voltage of the battery power supply is getting low. Please restart the vehicle engine before operating the power inverter.
- When you are not using the inverter, turn the power switch to OFF and disconnect the inverter from power supply.
- Disconnect the inverter when starting the vehicle's engine.



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## BATTERY USE

- If you choose to connect the inverter directly to your battery terminals, it is important to connect with right polarity (connect  $\oplus$  from inverter to  $\oplus$  of battery terminal and connect  $\ominus$  from inverter to  $\ominus$  of battery terminal)

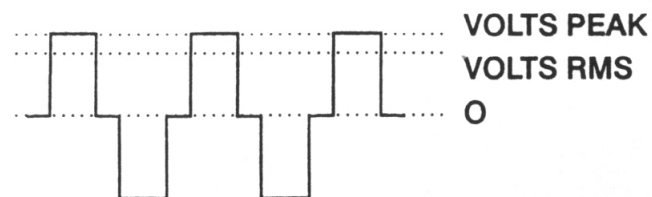
## CAUTION

THE FOLLOWINGS OPERATION WILL DAMAGE AND VOID THE WARRANTY OF THE INVERTER:

- REVERSE POLARITY BY CONNECTING THE WIRES TO THE INCORRECT TERMINALS.
- CONNECTING THE BATTERY CHARGER TO REPLENISH BATTERY WITHOUT DISCONNECTING THE INVERTER FIRST.
- CONNECTING THE INVERTER TO POWER SOURCE GREATER THAN 15-VOLT DC.
- OPERATING THE INVERTER AND BATTERY IN OR AROUND WATER.

## MEASURING THE AC VOLTAGE

The output waveform of the AC inverter is a MODIFIED SINEWAVE. To measure the AC output voltage, you must use a TRUE RMS VOLTMETER.



## SAFETY PRECAUTION

Do not open the case of the inverter. The high voltage inside the unit is the same type of power as your electrical outlets at home.

Do not let the cord of the inverter or any appliance's cord get wet.

Do not operate the inverter in or around water. The voltage of the unit makes electrical shock hazard if operated in wet conditions.

Do not connect the AC inverter directly to another AC power source.

Keep it away from children, the inverter produces power just like your AC wall outlets at home and should be treated seriously.

Allow at least 2 inch of clearance around the inverter for airflow.

If you operate the inverter in a moving vehicle, you need to secure the inverter to prevent it from shifting around while the vehicle is moving.

If there is anything wrong with the inverter, disconnect all of the power.



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## TROUBLESHOOTING

| Condition                  | Solution                                                                         |
|----------------------------|----------------------------------------------------------------------------------|
| Poor contact               | Clean contact parts thoroughly                                                   |
| Battery voltage is too low | Start the engine to recharge the battery. Replace the battery if needed.         |
| Shutdown on overload       | Reduce the wattage of inverter's load                                            |
| Thermal shutdown           | Allow the inverter to cool down by reducing the load or turn it off for a while. |
| Receptacle has no power    | Check the receptacle wiring.                                                     |

## HINTS

### Adding Extension Cord

If you need extension cord, we recommend the use of an extension cord between the AC output of inverter and AC appliances. You may use up to 100 ft. of high quality extension cord. A long cord will result in reduced output power.

### Buzz in audio system

Some stereo systems and "boom boxes" will emit a buzzing noise from their loudspeakers when operated from the power inverter because the power supply in the device does not adequately filter the modified sine wave produced by the power inverter. The only solution is to use a sound system that incorporates a higher quality power supply.

### Operating a TV

Picture tubes have a degaussing coil that uses a high initial surge of power to light up the screen from a "cold start". If the TV does not start up on the first try, switch ON the TV every 2 - 3 seconds until the screen comes on. Sometimes, it may take 2-5 tries before starting.

### Television interference

Operating of the power inverter can interfere with television reception on some channels. If this situation occurs, the following steps may help to alleviate the problem.

1. Make sure that the chassis ground lug on the back of the power inverter is solidly connected to the ground system of your vehicles.
2. Do not operate high power loads with the power inverter while watching television.

3. Make sure that the antenna feeding your television provides an adequate ("snow free") signal and that you are using good quality cable between the antenna and the television.
4. Move the television as far away from the power inverter as possible.
5. Keep the cables between the battery and the power inverter as short as possible and twist them together with about 2 to 3 twists per foot. This minimizes radiated interference from the cables.

## MAINTENANCE

Very little maintenance is required to keep the inverter operating properly.

## DESCRIPTION

**3000W Peak Power** — allow you to power appliances that require a large amount of initial (peak) power to work (such as many TVs and motor-power equipments).

**Low Battery Alarm** — the inverter sounds an audible alarm then turns itself off if the source battery becomes too low.

**Auto Shutdown/Reset Protection** — the inverter temporarily shuts itself down to protect itself from overheating.

**Overload/Short Circuit Protection** — the inverter automatically turns itself off if the connected load is too high or if it shorts.

**Fuse** — the inverter comes with fuse/s already installed and can be changed if it is damaged.

**Dual AC Outlets** — allows you to power up to two appliances at the same time.



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## HEAT DISPERSAL

The inverter generates heat while it is working. This is not a malfunction. However, if the inverter gets too hot while working, it will turn off by itself.

Position the inverter where air flows freely around it to allow the heat to disperse.

The inverter's thermal protection prevents it from operating when its temperature exceeds  $130 \pm 10$  °F /  $55 \pm 5$  °C.

## SPECIFICATION

| Name                       | Description                      |
|----------------------------|----------------------------------|
| Input                      | 12V (10-15V) DC                  |
| Output                     | 115V AC                          |
| Output frequency           | 60 Hz                            |
| Output waveform            | Modified Sine Waveform           |
| Continuous power           | 1250 Watt                        |
| Surge power                | 3000 Watt                        |
| Efficiency                 | Approx. 90 %                     |
| No load current            | < 0.95 A                         |
| Battery low alarm          | $10.5 \pm 0.5$ V DC              |
| Battery low shutdown       | $10 \pm 0.5$ V DC                |
| Alarm and thermal shutdown | $130 \pm 10$ °F / $55 \pm 5$ °C  |
| Internal DC fuse           | 30 A                             |
| External DC fuse           | None                             |
| AC output socket           | 3 outlets of 3-prong             |
| Power switch               | DC input ON/OFF control          |
| Dimensions (LxWxH)         | 10.3 x 5.4 x 2.5 in <sup>3</sup> |
| Net Weight                 | 4.2 lb                           |

## NOTE

All specifications are typical at nominal line, half load, and 77 °F / 25 °C unless otherwise noted.  
Specifications are subject to change without notice.

